dG = -2.85 dH = -43.5 dS = -131.2 Tm = 58.3

 $\begin{smallmatrix} \mathsf{adCGCAGTGC}^T_T \\ \mathsf{GCTGTCTGGTCCGCGTCACG}_T \end{smallmatrix}$

MM166 GCTGTCTGGTCCGCGTCACGTTTTCGTGACGCdd

DM429 GCTGTCTGGTCCGTCAGTTTTCTGACA

 $\begin{smallmatrix} \mathbf{d} & \mathbf{d} & \mathbf{d} & \mathbf{d} & \mathbf{T} \\ \mathbf{GCTGTCTGGTCCGTCAG}_{\mathbf{T}} & \mathbf{T} & \mathbf{T} \\ \end{smallmatrix}$

dG = -2.57 dH = -59.8 dS = -184.4 Tm = 51.1

 $\begin{smallmatrix} \mathsf{adCAATAATG}^T \\ \mathsf{GCTGTCTGGTCCGTTATTAC}_T \end{smallmatrix}$ dG = -3.73 dH = -64.0 dS = -194.4 Tm = 56.0DM433 GCTGTCTGGTCCGTTATTACTTTTGTAATAACdd

FIG. 1A

 $\begin{smallmatrix} \mathsf{accaattaata}^\mathrm{T}_{\mathrm{T}} \\ \mathsf{gctgtctggtccgttattat}_{\mathrm{T}}^\mathrm{T} \end{smallmatrix}$ DM432 GCTGTCTGGTCCGTTATTATTTTTATAATAACdd dG = -9.02 dH = -75.1 dS = -213.1 Tm = 79.2

DM434 GCTGTCTGGTCCGTTATTATATTTTTTATATAATAACdd $\begin{array}{c} {}_{\rm adCAATAATATA}{}^{\rm T}{}_{\rm T} \\ {}_{\rm GCTGTCTGGTCCGTTATTATAT}{}_{\rm T}{}^{\rm T} \end{array}$

 $\begin{smallmatrix} \mathsf{ddCAATAATATG}^\mathrm{T} \\ \mathsf{GCTGTCTGGTCCGTTATTATAC}_\mathrm{T} \end{smallmatrix}$ dG = -3.65 dH = -74.2 dS = -227.3 Tm = 53.3

dG = -4.81 dH = -78.4 dS = -237.3 Tm = 57.2DM435 GCTGTCTGGTCCGTTATTATACTTTTGTATAATAACdd

5'FAM-TXAGAGTCTGGTGCCGACTCGACGTT. $\operatorname{\texttt{GCTGAGCTGC}}^{\operatorname{T}}$

DM436 FAM-TXAGAGTCTGGTGCCGACTCGACGTTTTCGTCGAGTCG

GCTGTCTGGTCCGTCATG_T

DM430 GETETETESTECETE TTTTCATGACaa dG = 3.712 dH = -51.4 dS = 1153.8 Tm = 61.1 DM431 GCTGTCTGGTCCGTCATATTTTTATGACdd GCTGTCTGGTCCGTCATA,T dG = -2.34 dH = -46.4 dS = -142.2 Tm = 53.2

FIG. 1B

			140. 1B	· ·
10 T CCUGAGCTGC T 5'GCTGTCTGGTCCGGACTCGACG T 5'GCTGTCTGGTCCGGACTCGACGTTTTCGTCGAG[Űőme][Come][ddC] DM366	င္မ	GCGAGTGC T 5'GCTGTCTGGTXXCGCTCACG T 5'GCTGTCTGGTXXCGCTCACGTTTTCGTGAGCG DM363 TO B T TGCGAGTGC T 5'GCTGTCTGGTCCCGCTCACGTTTTCGTGAGCGTT DM364	TCGAGTGC T T 5'CACACAGGAGCAXXAGCTCACG T T 5'CACACAGGAGCAXXAGCTCACGTTTTCGTGAGCT MM119 7 T CGAGTGC T 5'GCTGTCTGGTXXGCTCACGTTTTCGTGAGC DM362	MM001 CACGACAGGCAGACAGGAXXGCTCACGTTTTCGTGAGCT MM119 CACACAGGAGCAXXAGCTCACGTTTTCGTGAGCT DM362 GCTGTCTGGTXXGCTCACGTTTTCGTGAGCG DM363 GCTGTCTGGTXXCGCTCACGTTTTCGTGAGCGT DM364 GCTGTCTGGTXXCGCTCACGTTTTCGTGAGCGTTT DM365 GCTGTCTGGTXXCGACTCGACGTTTTCGTCGAGTCG DM366 GCTGTCTGGTXXCGACTCGACGTTTTCGTCGAGTCG T 7 T CGAGTGC T 5'CACGACAGGCAGACAGGAXYGCTCACGTTTTCGTGAGCT MM001
G° = -10.7 kcal/mole at 37 °C H° = -89.0 kcal/mole S° = -252.5 cal/ (°K·mol) ddC] DM366 Tm = 79.4°C assuming a 2 state model	I'm = 78.2°C assuming a 2 state model G° = -11.2 kcal/mole at 37 °C H° = -92.0 kcal/mole S° = -260.5 cal/ (°K·mol) Tm = 80°C assuming a 2 state model	G° = -9.0 kcal/mole at 37 °C H° = -74.9 kcal/mole S° = -212.5 cal/ (°K·mol) Tm = 79.4°C assuming a 2 state model G° = -9.3 kcal/mole at 37 °C H° = -79.3 kcal/mole S° = -225.7 cal/ (°K·mol)	G° = -8.00 kcal/mole at 37 °C H° = -65.5 kcal/mole S° = -185.2 cal/ (°K·mol) Tm = 80.2°C assuming a 2 state model G° = -6.9 kcal/mole at 37 °C H° = -63.9 kcal/mole S° = -183.8 cal/ (°K·mol) Tm = 74.5°C assuming a 2 state model	AG° = -9.0 kcal/mole at 37 °C AH° = -75.1 kcal/mole AS° = -213.1 cal/ (°K·mol) Tm = 79.2°C assuming a 2 state mo GCTGTCTGGTCCGCGTCACGTTTTCGTGACG-ddC GCTGTCTGGTCCGCGTCACGTTTTCGTGACG-ddC G° = -7.52 kcal/mole at 37 °C H° = -69.0 kcal/mole S° = -198.3 cal/ (°K·mol) Tm = 74.8°C assuming a 2 state model

FIG. 2

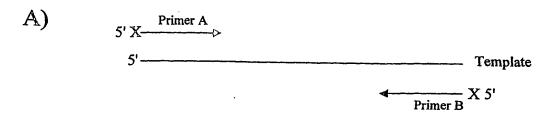
FIG. 2. are duplex decoys

5' GCTGTCTGGTCCGTTATTATAC-PO4 5' GCTGTCTGGTCCGTTATTATACdd 5' GCTGTCTGGTCCGTTATTATAC-Biotin 3' ddCCAGGCAATAATATG 3' ddCAGGCAATAATATG 3' ddCAGGCAATAATATG	MM308 (o-methyl) MM309 MM317 CL085 MM312 Tm=45° MM311 Tm=40.5° MM310 Tm=24.3° SCJ091 MM338
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5'-GCTGTYTGGTGXGTTAYTATAC-Biotin 5'-GCTGTYTGGTGXGTTAYTATAC-PO4 ddCYCAATXATATG-5'	CL077 CL062	
ddcacycaatxatatg-5. ddccacycaatxatatg-5.	CL063 CL064/CL078 CL065/CL079	

5'-GCTGTYTGGTAXGTTAYTATAC-PO4 CL091/CL100 ddCATYCAATXATATG-5' CL092/CL101

FIG. 3



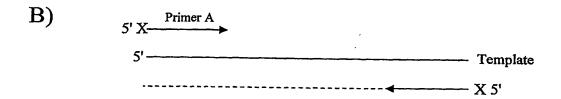




FIG. 4

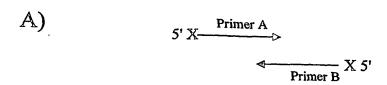
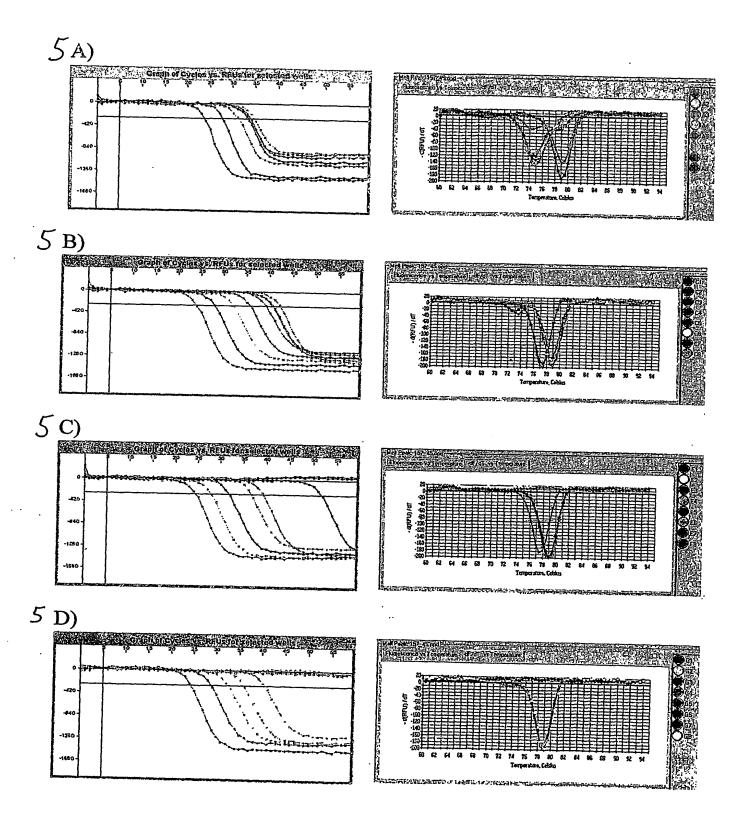


FIG. 5



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FIG. 6

